

*Amitt
Claims*

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CLAIMS

16A1 1. (After amendment) A method of preventing contamination of the surface of a drum dryer used in a paper machine, whereby a surface treatment agent prepared by emulsifying oil by the agency of a surfactant continuously supplied at a spray rate of 0.3 to 500 mg / m² per min represented by an amount of oil to the surface of the drum dryer in rotation, facing a paper strip, while the paper strip is being fed by the paper machine in operation.

2. (After amendment) A method of preventing contamination of the surface of a drum dryer according to Claim 1, wherein the drum dryer is multiple type drum dryers.

3. (After amendment) A method of preventing contamination of the surface of a drum dryer according to Claim 1, wherein the drum dryer is a Yankee drum dryer.

16A2 4. (After amendment) A method of preventing contamination of the surface of a drum dryer used in a paper machine, said method comprising the following steps 1) to 5):

1) the step of supplying oil to the surface of the drum dryer in rotation, facing a paper strip, while the paper strip is being fed by the paper machine in operation (oil supply step);

2) the step of filling up recesses in microscopic asperities on the surface of the drum dryer with the oil by supplying the oil (fill-up with oil step);

3) the step of forming a thin oil film on the surface of the drum dryer with the recesses in the microscopic asperities thereof already filled up by continuing supply of the oil (oil film forming step);

4) the step of transferring the oil to the paper strip by keeping the drum dryer and the paper strip pressed into contact with each other, depleting the oil

5) the step of replenishing the drum dryer with the oil continuously supplied upon depletion of the oil film by an amount of the depletion (oil replenishing step).

6. Deleted

7. Deleted

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[illegible]